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PATENT & TRADEMARK OFFICE

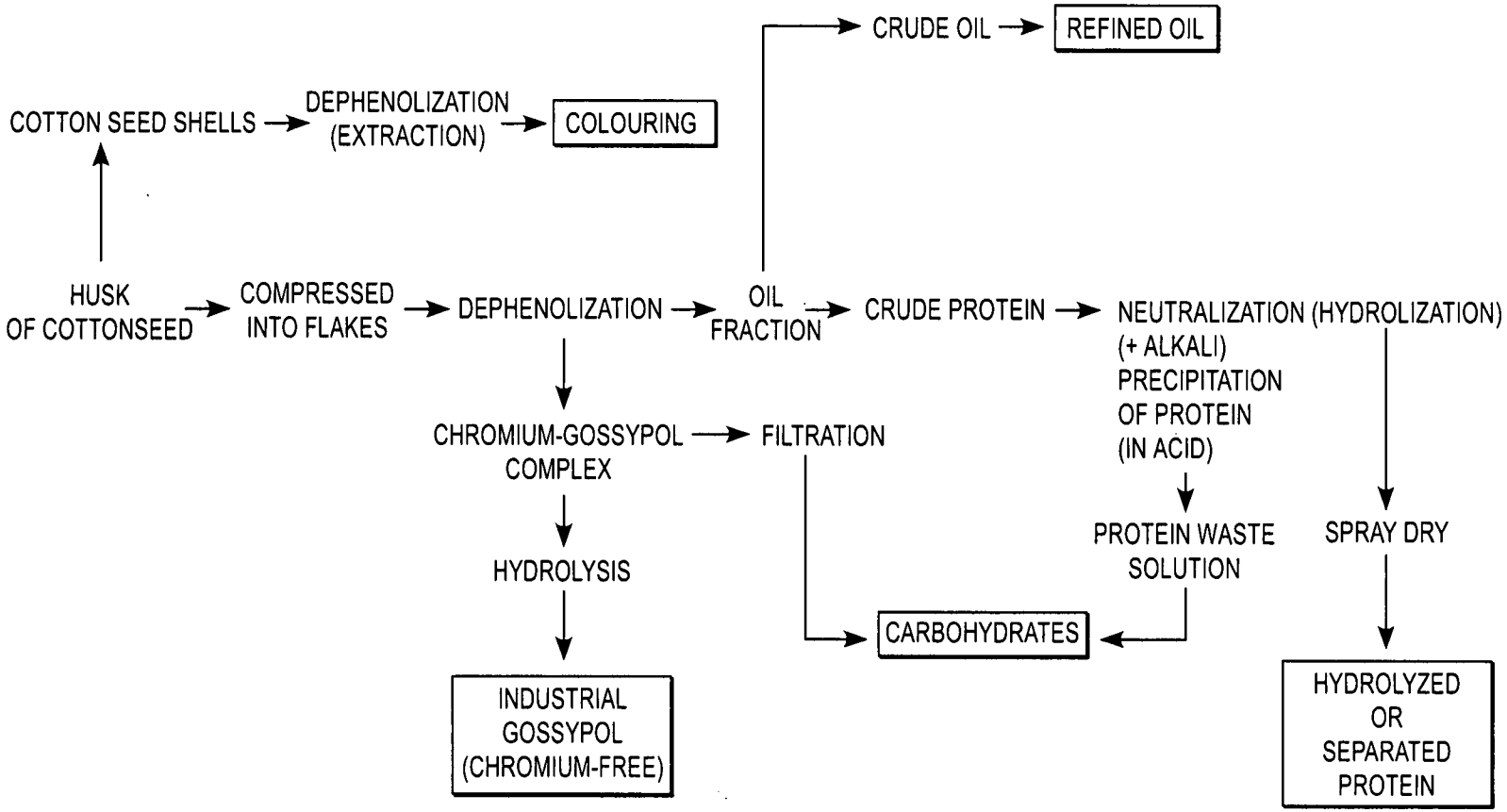

FIGURE 1

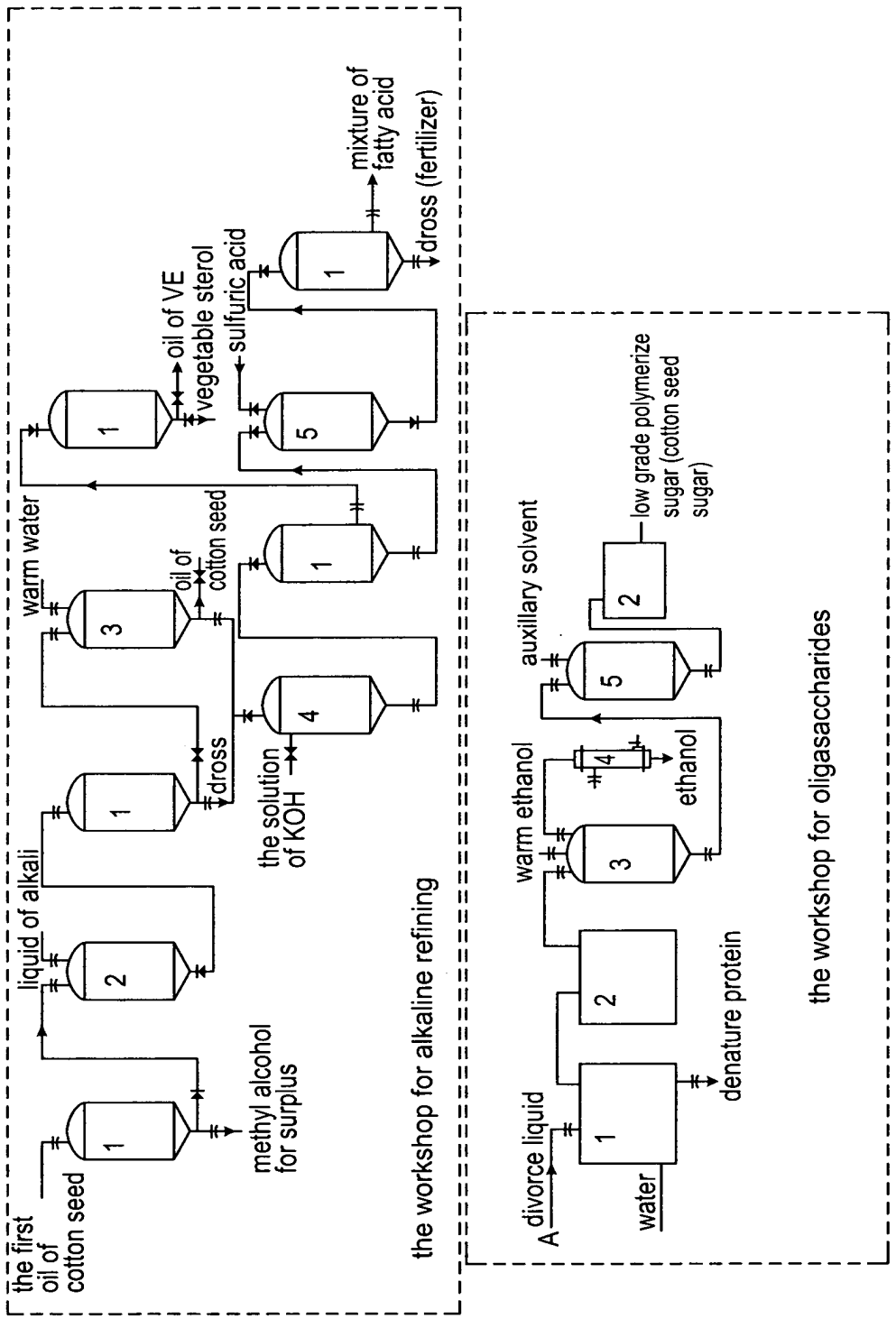
the first oil of cotton seed
methyl alcohol for surplus
liquid of alkali
dross
the solution of KOH
warm water
oil of cotton seed
oil of VE
vegetable sterol
sulfuric acid
mixture of fatty acid
dross (fertilizer)
the workshop for alkaline refining
divorce liquid
A
water
denature protein
warm ethanol
ethanol
auxillary solvent
low grade polymerize sugar (cotton seed sugar)
the workshop for oligasaccharides

FIGURE 2

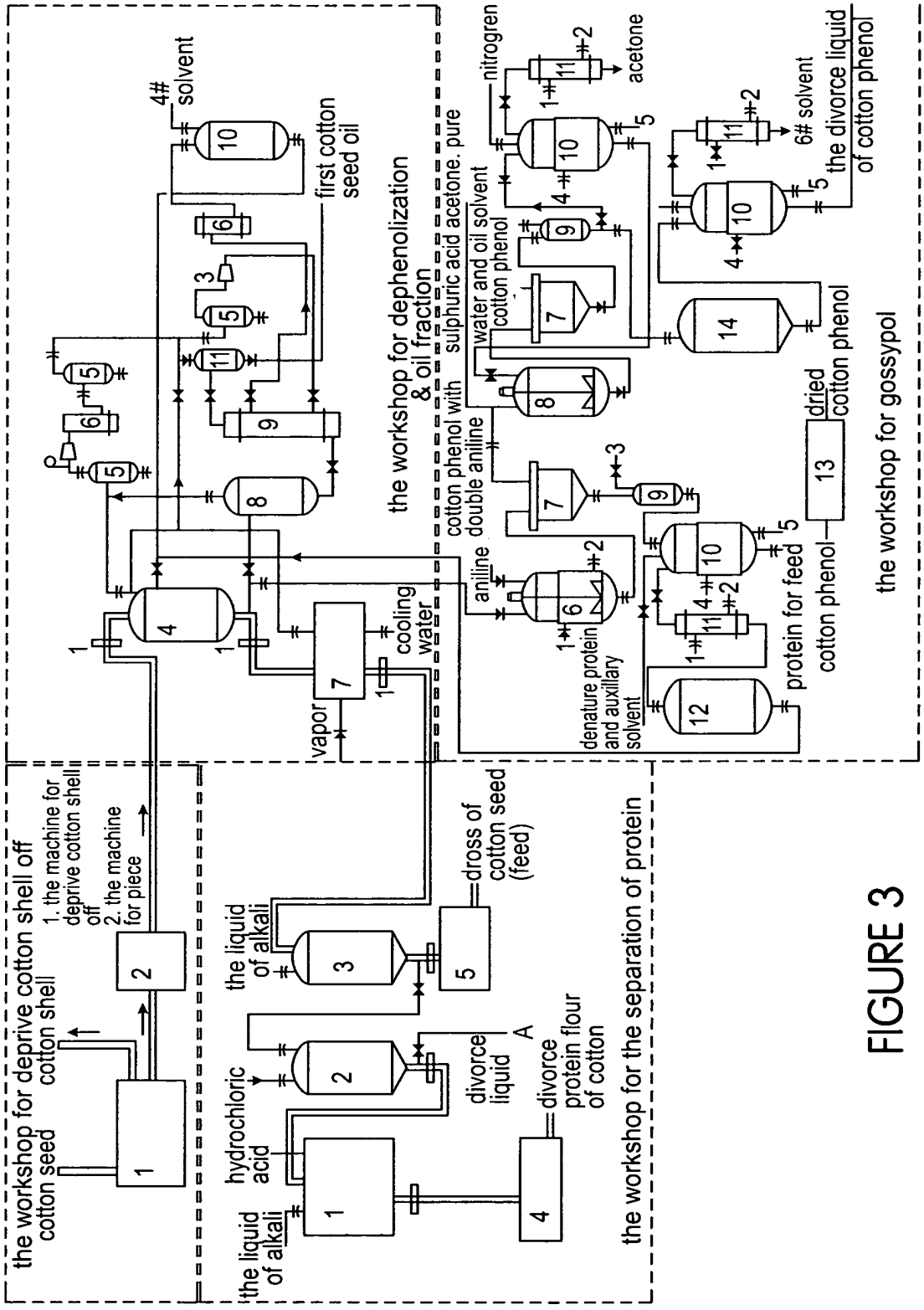
the workshop for deprive cotton shell off
cotton seed
cotton shell
1. the machine for deprive cotton shell off
2. the machine for piece
the liquid of alkali
hydrochloric acid
divorce liquid A
divorce protein flour of cotton
dross of cotton seed (feed)
the workshop for the separation of protein
the workshop for dephenolization & oil fraction
4# solvent
first cotton seed oil
vapor
cooling water
cotton phenol with double aniline
aniline
denature protein and auxillary solvent
water and oil solvent cotton phenol
sulphuric acid acetone. pure
nitrogren
acetone
protein for feed
dried cotton phenol
6# solvent
the divorce liquid of cotton phenol A
the workshop for gossypol

FIGURE 3